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Volume 134, Number 2 Friday, February 7, 2014



Students of the Martin Luther King Jr. Design Seminar, a program offered over IAP, display their art installations in Lobby 10. These projects address the principles of Dr. King and the students' ideas on topics such as human rights, justice, racism, and equality.

## MIT add/drop system moves to digital format

#### New application is meant to reduce add/drop hassle

By Victoria Messuri

A new online application was introduced to the MIT community on January 27, allowing students to add, drop, and change courses via their own electronic submissions. A number of key forms are also expected to go paperless in

Information Services and Technology (IS&T) and the Registrar's Office implemented the switch to the electronic forms. Online add/drop differs from the old procedure in that students have the freedom to add and drop without having to seek out professors' signatures on hard copy forms turned in to the Registrar's Office. All forms and digital signatures are handled through the program, notifying advisors (and in some cases, instructors) of the student's

Add/Drop Paperless, Page 15

## 2.00B, Toy Product Design, cancelled for this semester

Other classes to meet Course 2A requirement

By Tiffany Chen

Toy Product Design, 2.00B, has been cancelled this Spring 2014 but will be offered again in Spring 2015. Other courses, most prominently 2.007, Design and Manufacturing, will count toward the requirements fulfilled by 2.00B.

According to Professor David R. Wallace PhD '94, who teaches the course, there was no graduate student with sufficient knowledge of the material available to teach the

"I felt that I could not fully cover both 2.00B and 2.744 [Product Design, a graduate class that Wallace also teaches in the spring] by myself and also maintain the type of learning experience we hope to offer in either class. Since 2.744 was not offered in 2013, and many graduate students are on a 2 year cycle, the decision was made to cancel 2.00B for this year," Wallace said.

Taken mostly by freshmen, 2.00B offers an introduction to the product design process with a focus on toys. Students work in teams to design, prototype, and build a toy from start to finish. According to the course website, "Students work closely with a local sponsor, an elementary school, and experienced mentors on a themed toy design

The course has, since the beginning, been taught by a graduate student taking the lead teaching role, with Wallace as a supporting role. Other graduates, undergraduates, and outside mentors also help provide mentorship to the individual teams. As Wallace said, this model seems to give the graduate instructor a great learning opportunity and has worked well with the predominantly freshman classes.

Students have expressed disappointment at the announcement of the cancellation.

2.00B cancellation, Page 10

#### **News Briefs**

#### Sophomore lawyers up after getting subpoenaed for Bitcoin project

Jeremy L. Rubin '16 has sought help from the Electronic Frontier Foundation after receiving requests from the New Jersey attorney general's office for documents and code related to a hackathon project he worked on with three other MIT students.

The project, Tidbit, was a project intended to help websites make money without ads by running Bitcoin-mining code within users' browsers. The project won Rubin, Kevin C. King '14, Oliver R. Song '14, and Carolyn Zhang '14 an award for innovation in the Node Knockout competition in November.

An attorney from the Electronic Frontier Foundation, an advocacy group for digital rights, argued that the state of New Jersey has no jurisdiction over Tidbit and asked that Rubin be granted immunity from prosecution under the Fifth Amendment, should the subpoena stand. The attorney also said that Tidbit was a proof-of-concept that did not actually mine Bitcoins yet.

The New Jersey attorney general's office responded, saying that they were trying to determine whether Tidbit violated the New Jersey Consumer Fraud Act, and that the subpoena was authorized since Tidbit could affect New Jersey consumers.

The Tech will continue to cover this story as it develops.

#### Applicants receive email falsely stating they were admitted to MIT

According to the MIT Admissions blog, an email about financial aid, sent both to students admitted early and to current applicants, included the line "You are on this list because you are admitted to MIT!" in its

In the blog post, the Admissions Office's Chris Peterson SM '13 apologized, saying that when he was applying for colleges, he was hurt after receiving a letter from a college that got his name wrong. "[It] crushes - crushes — me to think that I might have unintentionally inflicted something similar

News brief, Page 11

## Early Sophomore standing numbers released

Number of students receiving early sophomore standing increases from previous year

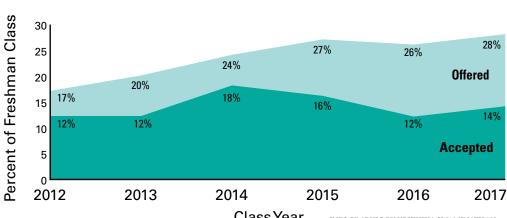
By Alexandra Delmore

STAFF REPORTER

This year, 316 freshmen were offered early sophomore standing. This is 28.4 percent of the class, an increase from last year's 25.9 percent. Additionally, 158 students chose to accept early sophomore standing so far, up from 134 acceptances last year.

Senior Associate Dean for Undergraduate Education Julie B. Norman sent out the offers to eligible freshmen in early December. In order to be eligible for early sophomore standing, freshmen must have completed 25 percent of their SB, or 96 units, by the end of their first semester. These freshman must

Sophomore standing, Page 12



Early Sophomore Standing Eligibility and Acceptance Rates

#### Class Year INFOGRAPHIC BY KRITHIKA SWAMINATHAN

#### **SEXUAL ASSAULT AT MIT**

Students discuss impact of rape culture at MIT **OPINION**, p. 5



#### THE EAST CAMPUS **DISCO DANCE FLOOR**

The IAP project took a group effort to turn a 'bad idea" into reality. ARTS, p. 9

#### A MOVIE JUST A **BIT TOO SWEET**

and comes off as

Deadline for June 2014 applications is this Friday, February 7th. If you plan to graduate in June, app now! There is no penalty associated with removing yourself from the list.

Applications for EECScon is due next Friday, February 14th. Any undergraduates in an EECS-related or EECS lab can apply.

The spring meal plan change period ends on Thursday, February 13. If you'd like to make a change to your plan, go to: https://odysseyhms-web. mit.edu/hmswebstudent/

Send news information and tips to news@tech.mit.edu.

#### **LETTERS TO THE EDITOR** MIT ALUM, **ENGINEER, DIES** Reif responds to "Breaking Silence" OPINION, p. 4 Willis Ware, computer

Labor Day overplays a predictable romance, creepy. ARTS, p. 8

#### World & Nation . . . 2 Opinion . . . . . . . . . 4 Fun Pages . . . . . . . 6 Arts . . . . . . . . . . . . . 8 Sports . . . . . . . . . 16

**SECTIONS** 

#### dies at 93. NEWS, p. 13

engineering pioneer,

#### Ukrainian protest leader accuses Russian agents in kidnapping

KIEV, Ukraine — A Ukrainian protest leader who vanished for a week and then emerged from a forest late last month saying he had been "crucified" gave his first full account of his or-

The activist, Dmytro Bulatov, appeared with a Lithuanian doctor to rebut government claims that he had suffered only "a scratch" and to accuse Russian secret service agents and a friend of President Vladimir V. Putin of Russia of having a possible hand in his kidnapping and torture.

The suggestion of a Russian role came as a Kremlin adviser, in a scathing attack, accused the U.S. of funding and arming protesters in Kiev, the Ukrainian capital, and as the U.S. assistant secretary of state for European and Eurasian affairs, Victoria Nuland, arrived in Ukraine to meet with the government and the opposition.

Urging the Ukrainian authorities to crush what he described as an attempted coup by U.S.-armed "rebels," the Kremlin adviser, Sergei Glazyev, said in an interview published Thursday that the U.S. was "unilaterally and crudely interfering in Ukraine's internal affairs" in violation of a 1994 agreement.

This, he said, gave Russia the legal right to intervene in the crisis. He did not specify what form any such intervention might take.

-Andrew Higgins, The New York Times

#### Google settles an antitrust case in Europe, but critics remain

Google has agreed to a settlement with European competition regulators that leaves the company with a few bruises, yet victorious overall — and would end half a decade of wrangles with antitrust authorities across the globe.

Under the settlement, which awaits formal approval by the European Commission, Google agreed to the harshest penalties it has yet received in an antitrust inquiry anywhere.

But it escaped a fine and a finding of wrongdoing. And it protected its crown jewel — its secret algorithm — from oversight by regulators, and avoided a court battle or potential consequences like a \$5 billion fine or a ruling to make major changes to its company structure or its products.

The changes Google agreed to did little to satisfy the competitors whose formal complaints prompted the inquiry by European antitrust regulators. The investigation focused on whether Google abused its dominant position in the European search market, where it has about 90 percent market share, versus two-thirds in the United States.

"The basic pronouncement is, Google's not an illegal business," said Tim Wu, a professor of antitrust law at Columbia who worked on the U.S. Federal Trade Commission's antitrust case against Google, which ended with a finding that Google had not violated antitrust law. "Their main business goes full speed ahead. Obviously what some of Google's competitors would have liked was much more aggressive."

The deal's limited scope, however, did not stop Joaquín Almunia, the European Union's competition commissioner, from hailing it as a major success.

"No other antitrust body has secured such concessions from Google," Almunia told reporters on Wednesday. 'The agreement is far-reaching and creates a level playing field across Europe."

The decision would force Google to give its rivals more prominence in specialized search results, like those for shopping, travel and local business reviews. Most noticeably, Google said it would display results from at least three competitors each time it shows its own results for specialized searches related to things like shopping, restaurants and travel. In some cases, competitors will pay when people click on

-Claire Cain Miller and Mark Scott, The New York Times

## US issues penalties over violations of Iran sanctions

By Rick Gladstone THE NEW YORK TIMES

The Obama administration penalized nearly three dozen companies and individuals in eight countries Thursday, accusing them of evading sanctions on doing business with Iran.

It was the administration's most extensive enforcement action to target Iran since a temporary international agreement on that country's disputed nuclear program was completed in November and put into effect last month.

Announced by the Treasury Department office that oversees sanctions enforcement, the punishments were at least partly devised to send a message that the U.S. is not relaxing economic pressures on Iran, apparently to blunt an atmosphere of optimism that has resulted from the temporary nuclear agreement.

This week, Secretary of State John Kerry criticized France after it sent a large trade delegation to

"Today's action should leave no doubt that those who seek to evade our sanctions, support Iran's nuclear program or assist in Iran's promotion of international terrorism will continue to be called to account," a senior Treasurv Department official said in a conference call with reporters.

A Treasury announcement said the enforcement action had singled out "a diverse range of entities and individuals located around the world" for evading U.S. sanctions aimed at Iran.

There was no immediate comment from the Iranian government.

An intense political debate is underway over whether the temporary deal will help or hinder negotiations with Iran on a permanent agreement to resolve the dispute over the nuclear program, which Western nations suspect is a cover for creating the ability to make atomic bombs, despite Iran's repeated denials.

Administration critics in the U.S. and Israel have denounced the temporary agreement's provisions for some limited sanctions relief, arguing that the relaxation disproportionately favored Iran and helped it in ways that make the country's leaders less likely to negotiate a permanent accord.

Known as the Joint Plan of Action, the temporary agreement was devised to allow more time to negotiate a permanent accord.

It allows Iran access to more than \$6 billion of Iranian money impounded in overseas banks and eases restrictions on the country's petrochemical, automotive and precious metals industries.

In return, Iran froze much of its uranium enrichment activities and will provide more access to United Nations nuclear inspectors

Iran and the so-called P5+1 group, which includes the five permanent members of the U.N. Security Council - Britain, China, France, Russia and the United States — plus Germany, are now planning negotiations on a permanent solution to the dispute regarding Iran's nuclear program, with the first session scheduled this month.

## UN says that Syria must quicken chemical arms purge

By Somini Sengupta

THE NEW YORK TIMES

UNITED NATIONS — The U.N. diplomat coordinating the destruction of chemical weapons in Syria said Thursday that the government of President Bashar Assad needed to "pick up the pace," but she stopped short of blaming the Syrian authorities for the missed deadlines in exporting the most deadly chemical materials.

The diplomat, Sigrid Kaag, told reporters after privately briefing the Security Council, "Delays are not insurmountable."

The effort to destroy the chemical arsenal, which involves exporting 1,200 tons of toxic materials including components for mustard gas and sarin nerve agent, is well behind schedule, with two deadlines missed already. Concern is growing that the final deadline of June 30 for eradication of the entire arsenal could be missed as well.

Kaag declined to specify why deadlines had been missed, except to cite abiding security risks. She said the final deadline could be met.

Asked if Syria was deliberately stalling, she said: "No, I don't think so," adding, "Delays have a reason."

The Security Council issued a statement expressing concern about "the slow pace" of the work and said the Syrian government had sufficient materials and equipment to carry out the elimination of its chemical weapons arsenal, despite the nearly 3-year-old civil war raging in the country.

The Russian ambassador to the United Nations, Vitaly I. Churkin, suggested earlier in the week that the United States was partly to blame for the delay, saying the U.S. ship on which some of the chemicals are to be rendered harmless had not arrived yet in the Mediterranean Sea. But Churkin expressed confidence

that the project would be "accomplished in a timely manner."

"Those chemicals are going to be destroyed," he said.

The U.S. ambassador to the United Nations. Samantha Power, rejected Churkin's criticism Thursday, telling reporters that the delays had nothing to do with the impending arrival of the U.S. ship, the Cape Ray.

"It's time for the Assad government to stop its foot-dragging, establish a transportation plan and stick to it," she said.

The new concern over Syria's chemical weapons, which Assad committed to destroy in an agreement reached four months ago, was just one of the Syrian issues confronting the United Nations on Thursday. Another was the frustrated effort to send emergency food and medicine into besieged areas of the country, including the Old City section of Homs, which government forces have surrounded.

40°N

#### **WEATHER**

#### Potentially huge snowstorm unlikely

By Shaena Berlin STAFF METEOROLOGIST

If you have been reading

weather articles this week, you might have seen some alarming possibilities for a major Nor'easter this Sunday. Two low pressure systems might have collided and moved up the coast of the Eastern US, picking up moisture from the ocean and blanketing popula-

tions centers with more snow. Fortunately, updated model outputs suggest that the more southern system will track harmlessly into the Atlantic ocean, leaving only a weaker low pressure system that may bring snow showers on Sunday. Until then, the daily high and low temperatures in Cambridge will be around 10 degrees F colder than usual, so bundle up!

#### **Extended Forecast**

Today: Mostly sunny with a high around 28°F (-2°C). W winds at 10 to 15 mph.

Tonight: Clear and cold with a low around 13°F (-11°C). W winds at 15 mph.

Tomorrow: Mostly sunny during the day with

a high near 31°F (0°C). Clouds arriving overnight, with a low around 18°F (-8°C). W winds around 10 mph. Sunday: Cloudy with a chance of snow showers. High

around 30°F (-1°C). Low near 17°F (-8°C). Monday: Partly cloudy with some chance of snow showers. High around 29°F (-2°C). Low around 9°F (-13°C).

30°N 25°N Situation for Noon Eastern Time, Friday, February 7, 2014 Precipitation Symbols Weather Fronts Thunders Light \* OO Haze

Moderate \*\*

Heavy

Compiled by MIT Meteorology Staff

and The Tech

## Senate fails to pass threemonth extension of jobless aid

By Jeremy W. Peters

THE NEW YORK TIMES

WASHINGTON — The Senate failed to move forward on a three-month extension of assistance for the long-term unemployed Thursday, leaving it unlikely that Congress would approve the measure soon while undercutting a key aspect of President Barack Obama's economic recovery plan.

Fifty-nine senators, including four Republicans, voted to advance the legislation, falling one vote short of the 60 needed to break a Republican filibuster effort.

Republicans and Democrats, many from the nation's most economically depressed states, had been trying to reach a solution that would allow people who have exhausted their unemployment insurance to continue receiving benefits as long as the government offset the \$6 billion cost.

Ultimately, how to pay for the program proved too big a hurdle for senators to overcome.

"We've given them everything

they wanted. Paid for," said Sen. Harry Reid, D-Nev., the majority leader, flashing his irritation at Republicans who blocked the bill.

He said Democrats would keep pushing to extend the benefits, which expired at the end of last year, cutting off more than 1.3 million Americans. That number has since grown to more than 1.7 million.

Democrats hope to turn the issue into an election-year cudgel and have accused Republicans of ignoring people who are out of work. Republicans have balked at that as political smoke.

"We know it's a political game," said Sen. Orrin G. Hatch, R-Utah. "We know they'd like to bring it up every three months and bash Republicans with it."

Obama has repeatedly pressed Congress to extend the program, an emergency measure enacted during the recession to provide up to 47 weeks of supplemental payments to the long-term unemployed.

"We cannot allow one vote to stand in the way of supporting these Americans as they struggle to find work," a White House statement said Thursday. "Both sides of the aisle have worked together to prevent this kind of hardship in the past, and neglecting to do so now is unacceptable — especially given the high long-term unemployment rate."

But even if the Senate had moved forward, getting any extension through the Republican-controlled House was going to be very difficult.

Speaker John A. Boehner, R-Ohio, has said he would entertain a bill only if it was paid for and could stimulate job growth.

Some of his more conservative members, who said the extension would only create more debt for future generations to deal with, were even more hesitant.

"The perception that I get from the Senate right now is, 'Times are tough. We should make times tougher on our kids to make it easier on us, and then feel better," said Rep. James Lankford, R-Okla. "And I think that's just not a philosophy I'm willing to support."

### Trial brings new scrutiny of selfdefense laws

By Alan Blinder

THE NEW YORK TIMES

JACKSONVILLE, Fla. — Nearly seven months after a jury acquitted George Zimmerman, whose shooting of an unarmed black teenager made him synonymous with Florida's so-called Stand Your Ground law, the state's latest drama involving a fatal burst of gunfire and a claim of self-defense began to play out Thursday in a courtroom here.

And while race is woven into the background of the first-degree murder trial of Michael D. Dunn, 47, a white software developer who said he killed Jordan Davis, a black teenager, in a November 2012 confrontation about loud music, the trial appears likely to focus less on race and more on the mechanics of Florida's self-defense laws and how juries apply them.

In their opening statements Thursday at the Duval County Courthouse, a prosecutor and a defense lawyer presented divergent theories about the motive for what took place at a convenience store on Southside Boulevard after Dunn stopped with his fiancée, Rhonda Rouer, for wine and potato chips.

Assistant State Attorney John Guy, who was part of the team that prosecuted Zimmerman last year, portrayed Dunn as "fueled by anger and intent" after hearing what he described to his fiancée as "thug music."

"When that defendant opened fire, Jordan Davis was sitting in his car seat with the door closed with nothing in his hands," said Guy, who told the court that Dunn had fired 10 shots, three of which struck Davis, after an exchange laden with "words of intent, words of hate, words that he cannot take back."

Not long after Dunn fired his weapon, Guy said, the teenagers in the red Dodge Durango in which Davis was a passenger, who had been out for an evening of "mall hopping and girl shopping," began what the prosecutor called

"an ominous roll call" to check on the well-being of everyone in the vehicle.

"Everyone responded to the sound of their name except Jordan Davis," Guy said, as the youth's parents sat in the courtroom. The trial will include testimony from the three people who were with Davis.

Dunn, who had been in Jacksonville to celebrate his son's wedding, left the scene and went to a nearby hotel before the next day driving to his home about 170 miles southeast of Jacksonville.

"He didn't call the police," Guy said. "He went to his hotel with his girlfriend and he called the pizza deliveryman and ordered pizza."

Cory C. Strolla, Dunn's lawyer, said that Dunn had been compelled to act and pulled a handgun from the glove compartment of his car only after he felt endangered.

"Jordan Davis threatened Michael Dunn," Strolla told the sequestered group of 16 jurors, four of whom are alternates.

## Behind retreat on immigration, a complicated political interplay

By Carl Hulse

THE NEW YORK TIMES

WASHINGTON — House Speaker John A. Boehner would sorely like to help engineer an overhaul of immigration policy to bolster his legacy, help his party politically and address a difficult social and economic problem. He just cannot seem to persuade other Republicans, who see the immigration debate as a major threat to their drive to win the Senate and increase their House majority in November.

The tension between Boehner's desire to forge ahead on immigration and a Republican sense that staying focused on the new health care law is the path to victory in the midterm elections contributed to the speaker's sharp retreat on Thursday from his new push for an immigration consensus.

Given that Boehner's negative comments on the prospects for immigration came on the same day Senate Republicans again blocked an extension of emergency unemployment aid, Republicans risk being portrayed as a force of obstruction if the year becomes one long impasse. After Boehner's comments, Rep. Nancy Pelosi of California, the House Democratic leader, said that if Republicans did not intend to legislate, "why don't we just pack up and go home?"

But Republicans knowledgeable about the issue said immigration was not yet completely off the table. Instead, they said, reaching any agreement has become appreciably harder because of a Republican reluctance to get caught up in an internal feud and stomp on their increasingly bright election prospects.

At the same time, Republicans say President Barack Obama's increasing reliance on executive authority to impose his agenda has stirred real resentment among the rank-and-file. It has also deepened their suspicion that Obama would

not follow through on tough border enforcement and other aspects of immigration policy that Republicans favor — resulting in the lack of trust that Boehner cited in his remarks.

"He is running around the country telling everyone he's going to keep acting on his own," Boehner told reporters, accusing the president of "feeding more distrust about whether he is committed to the rule of low."

Much more is at work than the question of trust between congressional Republicans and the White House in what is becoming a complicated interplay of issues and politics.

Republicans, through Boehner's remarks and other channels, are letting the White House know that one way it can begin to win back the confidence of House Republicans is to work with them on issues such as expanded trade authority despite House and Senate Democratic resistance to new trade deals.

## Twitter's stock crashes back to reality

Twitter's stock plunged Thursday, dropping 24 percent to close at \$50.05 a share, after a fourth-quarter earnings report Wednesday showed significant declines in usage and a slowdown in the growth of the powers.

While such a steep one-day drop is extreme, it may have brought the shares down closer to a valuation that many Wall Street analysts think matches the company's growth prospects. The stock is still nearly double the \$26 price at which Twitter first sold shares to the public in November.

Twitter faces two big growth questions. One is usage: Can the social network attract more users and get existing users to spend more time on the service?

On that front, the company's fourth-quarter results were disappointing, spurring the sell-off. The company added just 9 million new users over the quarter, growing just 3.8 percent from the third quarter. On average, users refreshed their message feeds about 10 percent less frequently, suggesting they were using Twitter less.

"In order to go mass market, TWTR will have to make its core product more user friendly," Ben Schachter, an analyst with Macquarie Capital, wrote in a report Thursday, referring to the company by its stock symbol. "If the user growth doesn't reaccelerate, improved monetization won't be enough to drive the stock."

—Vindu Goel, The New York Times

## Senate confirms Baucus as ambassador to China

WASHINGTON — The Senate voted 96-0 Thursday to confirm Sen. Max Baucus as the new ambassador to China.

Baucus, a Democrat, has represented Montana in the Senate since 1978. As chairman of the Senate Finance Committee, he has been a major voice during many of the major policy debates of the past decade. He also was an architect of President Barack Obama's signature legislative achievement, the Affordable Care Act.

His departure from the Senate will have a domino effect among the Senate's Democratic leaders. Sen. Ron Wyden, D-Ore., who is now chairman of the Senate Energy Committee, will become leader of the Finance Committee; Sen. Mary L. Landrieu, D-La., is expected to replace Wyden on the energy panel. Gov. Steve Bullock of Montana, a Democrat, is expected to name a replacement for Baucus.

In his farewell address on the Senate floor Thursday, Baucus described what he called the defining period of his life — the year he took off from college to travel to India, Japan and China.

"Before I departed, I had never thought about a life of public service, but that trip opened my eyes; it charted my course," he said. "I realized how people across the globe were interconnected, and I saw the indispensable role America plays as a leader on the world stage.

"The world is getting smaller," he added. "Our natural resources are diminishing. We have to find a way to work together better."  $\,$ 

—Coral Davenport, The New York Times

## A petition takes aim at a statue in briefs

BOSTON — When Sruthi Narayanan, a Wellesley College senior, first saw a nearly naked man who appeared to be stumbling on campus, she assumed he was a drunk, about to be arrested.

He was actually a new work of art.

The sculpture, "Sleepwalker," is 5 feet 9 inches tall and made of epoxy, fiberglass and paint. The figure, with a bit of a paunch, is clad only in tight white briefs. His arms are stretched out in front of him, his face reddened and miserable. The work, by Brooklyn artist Tony Matelli, was commissioned by the Davis Museum at the college as part of an exhibition of Matelli's work.

The appearance of "Sleepwalker" on Monday stoked anger among some of the students at the all-women's college in Wellesley, Mass. They swiftly took to the Internet to petition the school to move the statue indoors. By Thursday afternoon, the petition had more than 500 supporters.

An explanation of the petition, which was started by two students, Lauren Walsh and Zoe Magid, calls the sculpture "a source of apprehension, fear, and triggering thoughts regarding sexual assault for some members of our campus community."

The reaction has pitted students concerned with their peers' discomfort against the college administration, which has focused on the sculpture as a catalyst for discussion.

"The community is debating everything from compassion to censorship, to freedom of expression and the significance of safe spaces," H. Kim Bottomly, the college's president, said in a statement Thursday. She said the students who led the petition were going to meet Thursday with Matelli and Lisa Fischman, director of the Davis Museum.

—Jess Bidgood, The New York Times

## Next phase of Obama's executive push: climate hubs

WASHINGTON — On the heels of the Senate's passage of a long-awaited farm bill, the Obama administration is to announce Wednesday the creation of seven regional "climate hubs" aimed at helping farmers and rural communities respond to the risks of climate change, including drought, invasive pests, fires and floods.

White House officials describe the move as one of several executive actions that President Barack Obama will take on climate change without action from Congress.

In substance, the creation of the climate hubs is a limited step, but it is part of a broader campaign by the administration to advance climate policy wherever possible with executive authority. The action is also part of a push to build political support for the administration's more divisive moves on climate change — in particular, the Environmental Protection Agency's regulations on coal-fired power plants.

Tom Vilsack, the secretary of agriculture and a former Iowa governor, is to announce the creation of the climate hubs at a White House briefing

—Coral Davenport, The New York Times



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The Tech (ISSN 0148-9607) is published on Tuesdays and Fridays during the academic year (except during MIT vacations), Wednesdays during January, and monthly during the summer by The Tech, Room W20-483, 84 Massachusetts Avenue, Cambridge, Mass. 02139. Subscriptions are \$50.00 per year (third class). POSTMASTER: Please send all address changes to our mailing address: The Tech, P.O. Box 397029, Cambridge, Mass. 02139-7029. TELEPHONE: Editorial: (617) 253-1541. Business: (617) 253-8324. Facsimile: (617) 258-8226. Advertising subscription, and typesetting rates available. Entire contents © 2014 The Tech. Printed on recycled paper by Mass Web Printing Company.

#### **LETTERS TO THE EDITOR**

#### A response to "Breaking Silence"

Last week in the pages of *The Tech*, a young MIT graduate shared her anguished account of being raped as an undergraduate at MIT by someone she thought she could trust — her friend, coworker and research colleague, a man ten years her senior.

The suffering she describes breaks my heart. And — as we know from years of campus reporting about sexual assault and from the comments posted on her letter — she is not alone. That such betrayals occur in our community makes me profoundly sad and angry. Nothing could be further from our ideal of a community founded on respect, decency, sympathy, and kindness.

I admire her bravery in breaking the silence for all rape survivors in our community. Just as important, she has brought this topic to the center of our public conversation.

As Chancellor Cynthia Barnhart begins her new role, I have asked her to make the subject of sexual assault a central priority. The community deserves a rigorous assessment of the nature and extent of the problem of sexual assault at MIT. We all need to be aware of what MIT is doing as an institution to try to prevent sexual assault, to respond with understanding and fairness, and to provide survivors with the help they need. And we need to decide where we should do more. I have asked the Chancellor

to deliver a report to me by the end of the spring semester, so we can take any needed action.

Over the last several years, the staff of Violence Prevention & Response, the Division of Student Life, MIT Police, the Office of the General Counsel as well as others at MIT, including Institute Community and Equity Officer Ed Bertschinger and many students, have done important work together to raise awareness of sexual assault and harassment and to improve our support and other assistance for survivors.

I am proud of and grateful for their work, and I believe we should use this moment to improve and expand our community efforts further still.

Every one of us in the MIT community faculty, post-docs, graduate students, undergraduates, alumni and staff — can contribute to the solution. We need to care for each other, and listen to each other with compassion and respect. We need to intervene when we see a friend, student or colleague in a vulnerable situation, or when we sense an abuse of trust and power. We should all take the time to understand what constitutes sexual misconduct. We must make sure that those who suffer sexual assault know that they have the full support of this community — and we need to create a culture and environment that minimize the instances of such assaults in the first place. Most important, we must all treat sexual assault as a fundamental violation of our values that will not be "normalized," glossed

#### Preventing and Addressing Sexual Misconduct at MIT

If you or someone you know needs to talk, help is available.

To report an incident to the Institute: http://sexualmisconduct.mit.edu/

For 24-hour support & information, or to report anonymously, contact Violence Prevention and Response (VPR): (617) 253-2300 http://mit.edu/wecanhelp

To report a crime or for police assistance: (617) 253-1212 http://police.mit.edu

over or tolerated at MIT.

At MIT, we hold ourselves to high standards in many realms. I believe we should do the same in how we treat one another.

Please join me in rising to this challenge for our community.

If you have thoughts on this subject that you would like to share with me privately, feel free to respond by email: reif@mit. edu. I will respect your wishes regarding confidentiality.

L. Rafael Reif President, MIT

#### **SEXUAL ASSAULT AT MIT**

## Addressing rape culture at the Institute

As sexual assault becomes more apparent on college campuses, how can MIT do better?

By Cory Hernandez, Mitali Thakor, Charlie Andrews-Jubelt, and Chacha Durazo

Editor's Note: This article is part one of a two part series, and it contains explicit references to rape and sexual assault

#### What is rape culture?

One in six women will survive rape in their lifetime. One in 33 men will survive rape in their lifetime, although the ratio is often believed to be much higher — up to one in six men - since it is thought that male survivors are less likely to report the crime. LGBQ people are more than twice as likely to survive rape and sexual assault as straight individuals; one in two Trans\* people are survivors. One in four women will survive a rape or attempted rape by the time she finishes college. An article published in this week's Boston Globe stated that reports of sexual assaults at Boston-area schools have risen nearly 40 percent between 2008-2012, at a 10-year high. At MIT specifically, there were six reported rapes in 2010, seven in 2011, and twelve in 2012. Additionally, no one reported any forcible fondling in 2010 and 2011, but three did in 2012. The silver lining is that the increase in reports may be due to better access to resources for reporting, but the majority of rapes still go unreported.

Statistically speaking, most of us know at least one survivor of rape, so why is more not being done to prevent such a heinous crime? This inaction can be largely attributed to the presence of rape culture in society. This article, the first of a two-part series, describes rape culture and examines its effects here at MIT.

Drawing from Wikipedia for a concise definition, "rape culture is a concept that links rape and sexual violence to the culture of a society, and in which prevalent attitudes and practices normalize, excuse, tolerate, and even condone rape." That is, rape culture manifests itself when instances of rape and sexual assault are frequently downplayed, excused, or even endorsed by individuals, institutions, and the media. In many cases, the public sympathizes with the perpetrator and even blames survivors for their own assault. Moreover, the public treats accusations of rape much differently than other crimes: victims are questioned as to why they didn't work harder to prevent it, while alleged perpetrators are given the benefit of the doubt. Think of how the media responded to the Steubenville rape case from last year, where the media focused on how the woman should not have drunk so much while lamenting the ruined "bright futures" of the perpetrators. Or you may have heard someone say that a woman was "asking for it" or a survivor "just led a guy on."

Our criminal justice system perpetuates rape culture with laws and policies that allow lawyers and juries to blame survivors for the rape, making it extremely difficult to convict rape perpetrators (only an estimated 2–4 percent of rape perpetrators are convicted). The media perpetuates the myth that rapists are only the "strangers in the bushes," though two-thirds of them are people the victim already knows. Media imagery sexualizes and normalizes rape, implying that there are "blurred lines" when it comes to consent for sex and sexual contact

Sexual violence is more frequently perpetrated against people of color and LG-BQA and Trans\* people. In addition to misogyny and sexism, rape culture intersects with racism, homophobia, transphobia, ableism, and many other types of oppression. All are contributing factors to a cul-

Rape culture, Page 5

#### **CORRECTIONS**

An article in Tuesday's issue of The Tech about Chancellor Cindy Barnhart PhD '88 neglected o include her graduation year.

Stanley P. Gill '14, a Contributing Editor for Volume 134 of *The Tech*, did not make it to the Sochi Winter Olympics, having decided that the risks of ski jump outweighed the benefits.

#### **OPINION POLICY**

**Editorials** are the official opinion of *The Tech*. They are written by the Editorial Board, which consists of Chairman Annia Pan, Editor in Chief Austin Hess, Managing Editor Judy Hsiang, and Opinion Editor Jacob London.

**Dissents** are the signed opinions of editorial board members choosing to publish their disagreement with the editorial.

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Letters, columns, and cartoons must bear the authors' signatures, addresses, and phone numbers. Unsigned letters will not be accepted. *The Tech* reserves the right to edit or condense letters; shorter letters will be given higher priority.

Once submitted, all letters become property of *The Tech*, and will not be returned. Letters, columns, and cartoons may also be posted on *The Tech*'s Web site and/or printed or published in any other format or medium now known or later that becomes known. *The Tech* makes no commitment to publish all the letters received.

 ${\bf Guest\,columns}$  are opinion articles submitted by members of the MIT or local community.

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## Putting an end to the tolerance of rape culture

#### MIT students and policies have not led the way — they should

Rape culture, from Page 4

ture that permits people to inflict pain on others — be they male, female, transgender, genderqueer, or of another gender; whether they be asexual, queer, bisexual, lesbian, gay, straight, or of another sexual orientation.

Verily, rape is an act of violence and power, not sex. The way a person looks, dresses, dances, or acts is never a substitute for sexual consent, and the absence of a "no" does not automatically register as a "yes" in the arena of sexual consent.

## Rape culture manifests itself in social media and public art, from student group publications to the party scene.

In July of 2013, college students from across the country gathered outside the Department of Education headquarters insisting that the administration do more to act as oversight for colleges regarding requirements of preventing sexual assault and rape on their campuses. At that time, the DOE was barely enforcing its own policies of reporting these crimes, and had few measures in place to prevent them on college campuses. Moreover, these students demanded that universities do more to punish perpetrators. Essentially, these students were protesting the most dramatic manifestations of rape culture on college campuses across the country. President Obama pledged this January to develop a White House Task Force On Protecting Students From Sexual Assault, with a 90-day turnaround on recommendations for actions colleges can take to uphold student rights to safe and violence-

#### Is rape culture present at MIT?

Rape culture manifests itself in social media and public art, from student group publications to the party scene. There are pre-existing, structural conditions that are necessary for fostering an environment where rape culture is socially acceptable. One important condition is a general lack of a community-wide conversation regarding sexual assault and rape. With this article, we hope to at least begin to fill this communication void.

Perhaps the most prevalent and insidious forms of rape culture at MIT is the alarming frequency with which alcohol is used as a weapon to target individuals. This is the aspect of rape culture that most directly impacts the safety of many students. Instead of placing the onus of preventing rape on the potential perpetrators — men in 9 out of 10 rape situations — people often tell women what to do to prevent assault: they should drink less, not walk around late at night, carry a whistle or pepper spray, not wear something so "provocative", or should not "lead a guy on." For instance, many women who attend a party together will have predetermined rules and signs for each other if they are in a potentially dangerous situation. But rarely, if ever, do men have any agreedupon rules to ensure that their peers are not committing assault. The onus continues to be placed on potential victims to ensure their own safety, while little action is taken to teach people to not commit rape — the glaring fallacy of that logic is the assumption that rape is inevitable. But rape — like misogyny, racism, and homophobia — is not

Another example of rape culture includes posts and comments on social media platforms. Two frequently visited social media sites at MIT are the "MIT Confessions" page on Facebook and isawyou.mit.edu. Sometimes people use the sites as legitimate methods for connecting with others, or simply for venting. Many individuals, however, exploit the sites' structures to post voyeuristic remarks on others that they have seen. Indeed, others need only peruse either site for a few minutes to find as many as a dozen examples. For instance, one post we found was about someone trying to catch glances at another person changing their clothes. While these sites tout their openness and claim that the poster takes "full responsibility" for whatever they post, these creepy and offensive posts still come through. Just as The Tech controls what is published in their paper, depending on their standards and ethics, these sites ought to have a set of guidelines for what is reasonable and what

Voo Doo, MIT's student-run humor paper, is also a toxic influence on campus. This publication receives funding from the Undergraduate Association (UA), which in turn receives almost all of its funding from students' tuition and student life fees. Yet Voo Doo is known to have published multiple

offensive, harassing cartoons and articles. Thus, students may be surprised to learn that their money is used to fund a "satirical" publication that has published rape cartoons, which actively trivialize a devastating and traumatic crime. Voo Doo has previously defended its graphic depictions of sexual assault under grounds of free speech, humor, and pushing boundaries. Making "jokes" out of sexual assault survivors is neither humorous nor inventive. Rather, it simply maintains the status quo by belittling them in one of the most painful ways possible and normalizing such horrendous acts of violence. In addition to depictions of sexual assault, the publication satirizes racial violence with depictions of lynching and the Holocaust.

We call on the Undergraduate Association and the Association of Student Activities to take a strong stance against rape culture and cease funding for *Voo Doo* unless the publication agrees to refrain from using sexual assault for the sake of jokes.

#### Our community discussion of sexual assault is lacking, and we hope to fill this communication void.

Finally, a recent example that received a great deal of press was the removal of murals in Burton-Conner due to Title IX violations. We feel that the core of the issue was miscommunication and misinformation: students conflated guidelines in the "Mind and Hand Book" with federal law under Title IX, but different murals were removed under either grounds. Students, especially in responses in The Tech, focused energies onto a blanket defense of free speech and public art (in a privately owned residential space, we might add). But why was the key issue of the violent and offensive content of the murals violating Title IX ignored? Where were The Tech articles that dissected why certain BC residents wanted to keep the murals while others felt unsafe or sexually harassed by them? Whenever students, faculty, or staff attempted to start those discussions, they were quickly and fiercely shot down by the same types of individuals proclaiming "freedom of speech," a mantra that many assume shields them from criticism but in fact often further silences assault and harassment survivors. We ask that students, faculty, and administrators work together — via, e.g., the new Title IX Working Group composed of students — to understand not only Title IX and living group culture, but also the underlying problem of rape culture prevalent across the nation and at MIT.

#### Debunking "freedom of speech" arguments

A common defense of the preceding behaviors is that those who perpetuate rape culture are simply exercising their freedom of speech. This argument is both incorrect and harmful. We have federal, state, and campus-wide legal policies, like Title IX, Massachusetts Civil Rights Act, and the MIT Mind and Hand Book, respectively, to protect people from "hate speech" and harassing language and behavior, and in many cases this legislation was hard-won by communities of survivors and activists. Moreover, MIT as a private university has more autonomy in regulating speech than many people think it does.

We also find the free speech defense harmful and misinformed because what supposed "free speech" advocates fail to realize is that those fighting against rape culture are usually not trying to make it illegal for anyone to speak their mind. Indeed, it is rare to find anyone pushing for legislation to ban rape "jokes" or misogynistic language — both of which contribute to rape culture. Rather, people who speak up against such language do so because words have consequences. When someone makes a joke, the group being laughed at matters. When you make an offensive comment about rape, the comment targets rape survivors - and when you defend such statements with your "right to free speech," you suppress survivors into silence and trivialize their traumatic experiences. Writing people off as "easily offended" or "sensitive" perpetuates rape culture through the normalization of sexual assault, and perpetuates a culture of shame and silence for survivors.

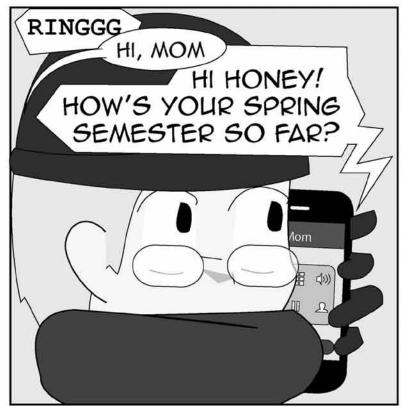
In the next part of this series, we will continue to discuss the specific steps we can take as a community to eradicate rape culture.

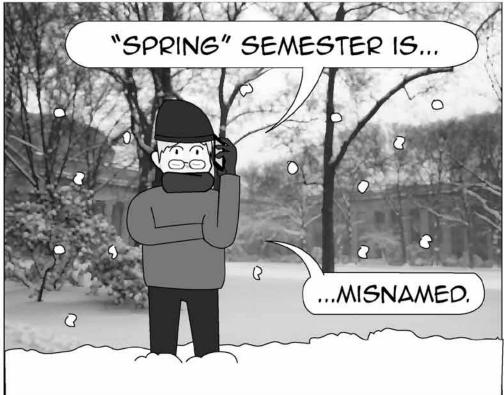
Cory Hernandez is a member of the class of 2014, Mitali Thakor is a graduate student in the department of Science, Technology, and Society, Charlie Andrews-Jubelt is a member of the class of 2017, and Chacha Durazo is a member of the class of 2014.



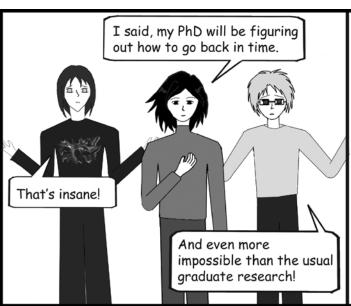
## Q.E.D. (QUITE EASILY DONE)

#### BY ERIKA TRENT





### Somewhere on the Search for Meaning... by Letitia Li



Look, it may seem like a good idea, but it's terrible in practice! There are limits to the times and places you can travel to, as well as how much of history you can change!

While I'd like to go take out Genghis Khan and save millions of lives...



#### Sudoku

Solution, page 10

7					3	2	4	6
	1		8	5	6	7		
		2			7			
3	6		4		9		2	8
			6			4		
		6	3	7	1		8	
9	3	1	2					7

#### Instructions: Fill in the grid so that each column, row, and 3 by 3 grid contains exactly one of each of the digits 1 through 9.

#### Techdoku

Solution, page 10

3×	180×			48×	
	60×			4	
30×		24×			2
		8x	1–		
8×	6		9×		4-
	12×			5	

### UPPERCUT by Steve Sullivan















#### **Soda Speak** by S.N. & Robert Francis

Solution, page 10

#### **ACROSS**

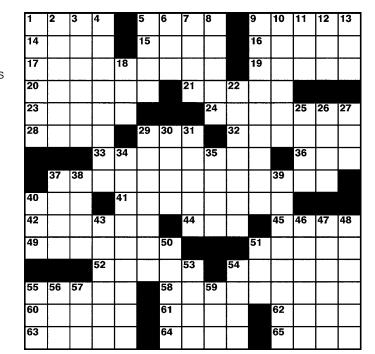
- 1 Toss out
- 5 Upscale retail chain
- 9 Chill out
- 14 Atlas section
- 15 Alter text
- 16 Held in reserve
- 17 University of West Florida home
- 19 Battle mount
- 20 Scarlett O'Hara's maid 21 Hawk or Raptor
- 23 Golf course
- 24 First pope
- 28 Perimeter
- 29 Very loudly, to Liszt
- 32 Wiggle room
- 33 Berated
- 36 Ending for elect
- 37 Colorado mountains
- 40 Fish feature
- 41 Straighten out
- 42 California Zephyr operator

- 44 Figure out
- 45 "That's a relief!"
- 49 Celebrant
- 51 Kick around 52 Try to buy
- 54 Cue 55 Capital of Liechtenstein
- 58 Surpass in shouting
- 60 Stroke of luck
- 61 Nordic gear
- 62 iPod model
- 63 Carried out
- 64 Safari setup
- 65 Flip out

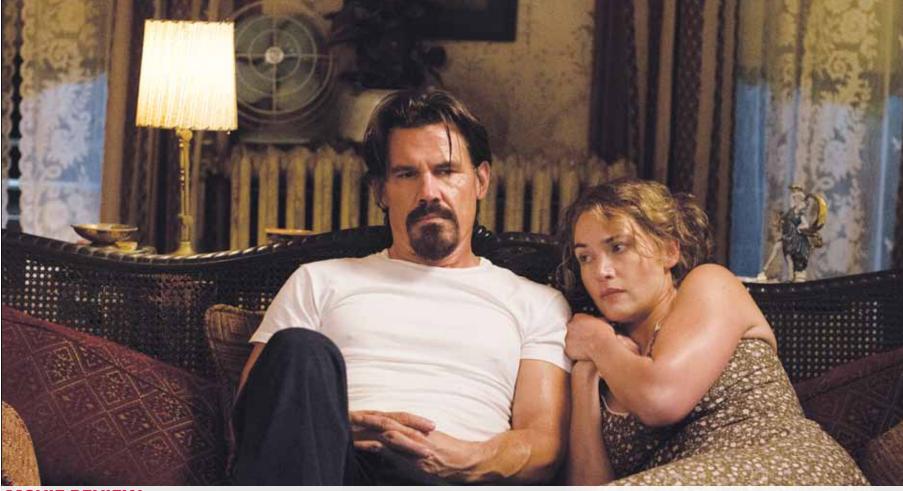
#### **DOWN**

- 1 Sancho Panza's mount
- 2 Log-on entry
- 3 De Beers business
- 4 Master openers
- 5 Exec. department head 6 Hoopla
- 7 Industrial oven
- 8 Shots in the dark

- 9 Potpourri piece, perhaps
- 10 Admittance
- 11 Tell it like it isn't
- 12 Hotshot
- 13 Crossed out
- 18 1 Down, for one
- 22 On the loose
- 25 Bit of kindling
- 26 Roof section
- 27 Pumpernickel grain
- 29 Washed out
- 30 Zip around
- 31 Crumbly cheeses
- 34 Evened out 35 Completely cooked
- 37 Street performer
- 38 Being aired 39 Recent arrivals
- 40 Quite a ways
- 43 Chew out
- 46 Of a Scottish philosopher
- 47 Word on some euro coins



- 48 Janitor's implement
- 50 Fowl place
- 51 Rainbow shape
- 53 Heat up in a hurry
- 54 Cry for attention
- 55 Military Families Mo. supporter
- 56 Rather like
- 57 Excavated
- 59 Part of pewter



**MOVIE REVIEW** 

## The most saccharine holiday

Labor Day is too melodramatic to be palatable

Kate Winslet and Josh Brolin in Jason Reitman's new drama, Labor Day.

By Chennah Heroor

Labor Day is Henry's (Gattlin Griffith) reminisces of Labor Day weekend in 1987 when he was 13. His mother Adele (Kate Winslet) has become a nervous shut-in after her divorce from Henry's father, and has isolated Henry and herself. But on a monthly shopping trip, they are forced to harbor Frank (Josh Brolin), an escaped fugitive.

From that point forward, the story becomes a cliché. Henry clings to Frank as a father figure, while Adele worries that Frank is exploiting Henry's naiveté. But her doubts evaporate quickly when Frank teaches Henry and Adele to bake a peach pie. The remainder of the story conveniently explains Frank's conviction as an

accident and presents him as a family man ready to complete Henry and Adele's life.

But the whole story has taste of a toosweet pie. Adele and Frank's love is presented as a testament that everyone can learn to love again, but the rapidly flipflopping Adele seems to be a victim of Stockholm syndrome rather than Cupid's a skewed version of reality. After Henry gives Adele a coupon book entitled "Husband for a Day," he reminisces that he could not provide her with what she was really missing. In the following scene, Adele tries to tell Henry about sex in a monologue that comes off comically Oedipal for all the wrong reasons.

## Adele seems to be a victim of Stockholm syndrome rather than Cupid's arrow.

arrow. It strains the suspension of disbelief to believe that both Frank and Adele are misunderstood victims marital infidelity. The story features unbelievable flashbacks meant to explain Frank's story, but these only make him seem more dangerous.

It's also clear that Adele and Henry have

The narration, provided by a present-day Henry, should give the story the feeling of a ticking time bomb, it but only makes the ending more predictable. The movie's version of an epilogue ties up every last narrative thread, leaving no questions about this family, which had already lost

\*\*\*\*

Labor Day

**Directed by Jason Reitman** 

COURTESY OF PARAMOUNT PICTURES

Starring Kate Winslet, Josh Brolin, and Gattlin Griffith

RATED PG-13

**Now Playing** 

my interest. And when Frank tells Adele the last three days were worth another 20 years in prison, I couldn't help wondering how much I would give to avoid seeing this movie again.

#### **BOOK REVIEW**

## A formal challenge to myths about atheism

Two scholars debunk everything you got wrong about atheism, and then some

By Roberto Perez-Franco

STAFF WRITER

Russell Blackford and Udo Schüklenk have written a volume discussing a selection of fifty "myths" about atheism that they say are commonly held by the public. I will comment on the substance of their efforts below, but first I have a huge bone to pick with the cover someone designed for this book. Why the radioactive violet background? Do you really need seven colors to spell the word "atheism"? Now on to the important stuff!

Although some of the myths are admittedly better than others, a few are just plain ridiculous and unlikely to interest the kind of person drawn to the level of discourse presented in the book. For example, a person that honestly buys into the claim that "Atheists worship Satan" (myth 10) is not tolerant enough to be convinced by rational argumentation. On the other hand, a few other myths are more subtle. Some are so pervasive that they are likely held by relatively smart and educated people, like myth 27, "Many atrocities have been committed in the name of atheism." But most of the myths fall in between these two ex-

## The authors deserve recognition for their exhaustive efforts of documentation. They dug through piles of nonsense, and then went point-by-point to provide a thoughtful response.

Blackford and Schüklenk have compiled a list of fifty claims that are "if not straightforwardly false, at least seriously and demonstrably misleading." To convince the reader that these "myths" are not straw men created by the authors only to be demolished, multiple instances of each myth are documented using representative sources, from prestigious scholars to anonymous Internet comments. Once each myth's existence has been established, the authors proceed to dissect its parts and refute what the misconception.

tremes, with statements that are irrelevant ("Atheism is depressing", #12), ridiculous ("Atheists have no sense of humor", #13), gratuitous ("Atheists are arrogant", #30) or prejudiced ("Atheists are intolerant", #31).

The authors deserve recognition for their exhaustive efforts of documentation. Personally, I feel for them. They dug through piles of writings and utterances from the likes of Dinesh D'Souza, acting as if such nonsense was worthy of a serious response, and then went point by point through the material to provide a thought-

ful and rational response. This undertaking must have been masochistic, but it was necessary. Blackford and Schüklenk were compelled to catalog and refute these claims in order to "encourage more fairness to atheists," which, as they report, "constitute the most disliked among marginalized groups" in the U.S.

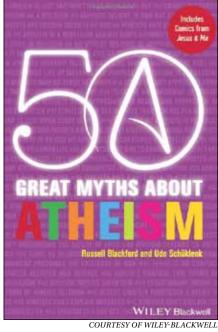
I do think, however, that the spirit of benevolence toward atheists that the book presumably pursues is undermined by the unfortunate inclusion in the book of a series of comics from "Jesus & Mo" peppered throughout the text. These cartoons depict the founding figures of Abrahamic religions having tongue-in-cheek philosophical and religious conversations in what I only care to describe as less than kosher settings, and with not necessarily pious intentions. Regardless of whether the cartoons are funny or clever, a book that seeks to combat prejudices against atheists should, in my opinion, be more careful in its choice of tone, lest they undo some of their hard work for the sake of cheap laughs.

I have been an atheist for a long time, and criticizing a particular choice of a particular book does not make me a closet deist While I praise the authors' efforts to bring greater understanding to the general public about what atheism is and is not, I regret they lacked the good judgment to do so through a book that showed to others the same respect and benevolence they are hoping to inspire in the general public's perception of atheists.

50 Great Myths About Atheism

By Russell Blackford and Udo Schüklenk

Wilev-Blackwell



The cover of Blackford and Schuklenk's book, 50 Great Myths About Atheism.

#### **EXHIBIT REVIEW**

## The Disco Dance Floor by First East

Collaboration and power tools were key to dance floor premiere

By Priya Kikani

Hastily printed signs warning of bright, flashing lights were emblazoned across the doorways of First East for a very real reason. From fall semester through IAP, the residents of First East designed and built a disco dance floor, which we unveiled as hosts of the annual Bad Ideas Ball.

Although Bad Ideas Weekend is typically characterized by such events as the infamous Green Building Challenge and cheeseball eating contests, the world premiere of the second generation disco dance floor is universally acknowledged as a very good bad idea. The dance floor is composed of six modules, creating a sixteen by eight foot party area that features approximately 4,608 LEDs flashing to the music. Highlighted patterns include rapidly changing cascades of color, rainbow spirals that can only be described as "trippy," and Nyan Cat (as well as other crowdpleasing animated GIFs including a dancing banana and Mario).

Incorporating these patterns into the visual display required intensive work. Namely, we created a Web UI that allows someone without coding experience to add, subtract, and layer generic elements (like colored lines) to create brand new patterns. Popular patterns could be saved for immediate use. The code is scalable to a floor of any size.

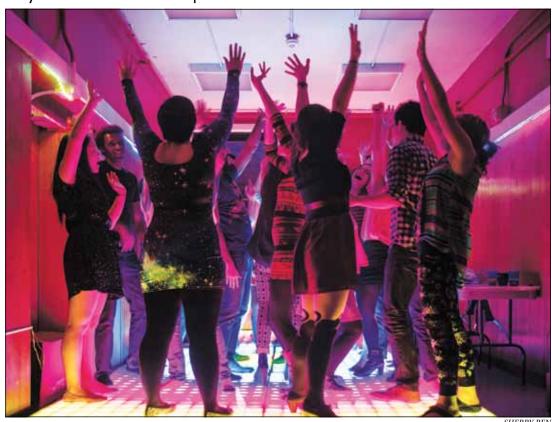
Laughing and cursing were heard in equal measure throughout the build process as the denizens of First East labored late into the nights of IAP. It was interesting to observe the surprisingly Darwinian process of creating the dance floor.

In order to minimize both manhours and cost, we had to be versatile. The first solution to any execution problem is always the most labor-intensive, and if we had not improved upon our initial idea, the dance floor would probably still be under construction. Thus, we used natural selection to choose the most efficient implementations, from sanding technique to crosssectional support installation. We the builders lived in a constant state of flux as issues ranging from malfunctioning equipment to insanely warped wood threatened to hinder our progress.

# The project was purely motivated by the desire to see the idea become a reality.

This article would not be complete without mention of Nubby, our faithful drill bit. Nubby, bless his soul, was our first responder, drilling every pilot hole. Though he was injured in battle (broken in half), he continued to fight to fabricate holes for us and ultimately prevailed.

Okay, we did get sentimental about some of our equipment, but just like the disco dance floor creators, we were faced with sub-optimal conditions. We needed people with all types of skills to bring this idea to reality, from snack-making to coding to power-tool-wielding. And during the late nights of construction, some even discovered new skills as soldering guerillas



First East presented "The Disco Dance Floor" for this year's Bad Ideas Weekend.

and drill-press whisperers.

Never before have I worked on a project of this size that was purely motivated by the desire to see the idea become reality. Finally, with great pride, the disco dance floor literally took center stage at the Bad Ideas Ball on Sunday, January 26th.

Undulating lights and enthusiastic builders evidently make for great parties. To complement the dance floor, a hallway was lined with LEDs, and the existing lights framing the dance floor area were

programmed to mimic the dance floor. Hit pop songs sound much better when heard from the top of a pulsing circle that's changing from purple to blue as you fist pump.

But the disco dance floor is not confined to the friendly location of First East. One module made an appearance at TechFair and attracted many curious visitors to our booth. Further work on the dance floor allowed us to generate patterns on the floor that are synced to the beat of the music. We

also created a human density sensor system that adjusts the pattern based on the number of people in a given area.

Bad Ideas, the Council of the Arts at MIT (CAMIT), Techx, the EC housemasters, First East alumni, and current residents all deserve huge thanks for donating to the dance floor. Without their help, this amazing creation would not have been possible.

You can come see the disco dance floor at the next First East Party!



#### **LOOKING FOR COMP SCIENCE STUDENT(S) TO BUILD NEW BILLION DOLLAR WEB STARTUP**

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#### Solution to Sudoku

7	8	5	1	9	3	2	4	6
2	1	4	8	5	6	7	9	3
6	9	3	7	2	4	8	1	5
1	4	2	5	8	7	3	6	9
3	6	7	4	1	9	5	2	8
8	5	9	6	3	2	4	7	1
4	7	8	9	6	5	1	3	2
5	2	6	3	7	1	9	8	4
9	3	1	2	4	8	6	5	7

#### Solution to Techdoku

from page 6

1	5	3	6	2	4
3	1	5	2	4	6
5	3	1		6	2
6	4	2	5	1	3
2	6	4	1	3	5
4	2	6	3	5	1

#### **Solution to Crossword**



## Students lament cancellation of 2.00B

#### No knowledgeable graduate student available to teach intro course

2.00B cancellation, from Page 1

"It's really disappointing, honestly. It's supposed to give an introduction to Course 2 to a lot of freshmen, and I was still deciding between 2A with 6 and 6-2, and I feel like if I had taken 2.00B this semester I would've gotten a better view of what Course 2 is supposed to be," said Carlos A. Henriquez '17.

Rory M. Beyer '17 said, "There's so many people that wanted to take it. It was kind of disappointing that they couldn't pull it off. I might try to take it next year. It's definitely a bummer."

According to an email sent out by Brandy J. Baker, the Academic Administrator of the Un-

#### Now 2.007 will fulfill half of the 2.00 requirement, as well as half of a class in a student's 2A concentration.

"Many upperclassmen, even those not involved in course 2 or course 2A, suggested 2.00B as a fun and engaging way to be introduced to Course 2," said Ryan A. Robinson, '17.

dergraduate Office of Mechanical Engineering, 2.007 will fulfill half of the 2.00 requirement, as well as half of a class in the student's concentration for Course 2A.



Students weaved their way around an accident involving a Boston Daytime shuttle and a black Porsche Cayenne late Wednesday morning at 77 Mass Ave. The winter storm started early that morning and continued into the afternoon and evening, dropping almost ten inches of snow over Boston and Cambridge

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#### Epsilon Theta Spring 2014 Rush Schedule

Meet us at the chapel turnaround (across Maseeh) at the listed time. Look for the yellow sign! Vegan options available at every meal!

Friday 2/7

5:15 PM **Tacos**! Stuff tacos to your heart's desire.

7:00 PM Food Tongue 101. Pear wonton peach sauce food tongue?

LAN Party. Warcraft 3, Starcraft 2. Natural Selection 2. Age of Empires 2, League of Legends. You name it! 9:00 PM

Saturday 2/8

Lunch! Join us for a tasty home-cooked meal by our cook Karen. 12:15 PM 1:30 PM **Anime Marathon.** Join us for an Anime Marathon of Eden of the East!

5:15 PM **Dinner!** More food by Karen. Yum!

7:00 PM **Programming Competition.** Write an AI to compete in a short game of our design. 9:00 PM Laser Maze. Homemade laser security system, Nerf gun guards, puzzles, what else could budding spies want?

Sunday 2/9

**Lunch.** Karen is the best. She makes us tasty food. Join us in eating said food. 12:15 PM 1:30 PM **Python Bee**. "Now was that three spaces or four? Darn. Let's start over."

3:30 PM Manhunt. How quickly the tables turn and the prey becomes the predator. Rock paper scissors tag---tag the

last of your prey at your own risk! Join us on campus at Lobby 7!

5:15 PM Make Your Own Pizza! Try your hand at crafting a delicious pizza.

7:00 PM Scary Games By Committee. Play scary games! Watch other people play scary games! AAAAAAAAAA! 9:00 PM Charades Variants. Impossible charades, telephone charades, contact charades, blindfolded charades, ALL

OF THE ABOVE AT ONCE.

**Know** something important we should write about?

(We probably don't know about it.)

Let us know.

news@tech.mit.edu

FRIDAY, FEBRUARY 7, 2014 THE TECH 11

#### News brief, from Page 1

on some of you," he wrote.

Peterson said the mistake arose from "an (apparently) undocumented side-effect" of merging mailing lists in MailChimp, an email marketing service.

He said he was unaware of mistake until he saw a thread about it on College Confidential, a forum for students applying to colleges.

"I'm not sure what it means. We could always hope right!!" one user wrote. Several others suspected it was a joke; another said it might be an error.

Peterson eventually posted a clarification in the thread. "I hope you'll forgive me," he said.

### Draft report released on graduate student housing needs

A group charged last year with reporting on graduate stu-

dent housing needs released a draft report Tuesday recommending building housing for 500-600 students. The draft report also made recommendations for creating approximately 400 beds "to meet swing-space needs over the course of the next decade." The report was first commissioned by Provost Martin A. Schmidt PhD '88 to the Graduate Student House Working Group. The committee was asked to evaluate the strengths and weaknesses of the current housing situation and recommending ways to better improve

The final report will be released in mid-spring. Schmidt, along with the new Chancellor Cynthia Barnhart PhD '88 and the Executive Vice President Israel Ruiz SM '01, will issue a response to the upcoming report once it has released.

—Leon Lin and Tushar Kamath

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### Peace Corps

peacecorps.gov - 855.855.1961

## Do you wish your sport was covered?

Hello, Athletes, look at the sports page, now back to you, now back to the sports page, now back to you. Sadly, your sport isn't there, but if you started writing for *The Tech*, it could be. Look down, back up, where are you? You're on the front page. Anything is possible when you write for *The Tech*.

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12 THE TECH FRIDAY, FEBRUARY 7, 2014

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## More freshmen are early sophomores

Some students say they want to bypass the freshman credit limit

**Sophomore standing,** from Page 1

have completed or received credit for the majority of the math and science general institute requirement (GIR) and met the freshman communications intensive (CI) requirement. Credits received during independent activities period (IAP) do not count toward this quota, with the exception of 8.01L Physics I and 18.02A Calculus. Credits received from Advanced Placement (AP) classes and Advanced Standing Exams are especially important for meeting all of these requirements.

#### Most students accept or decline the offer before the deadline in order to plan spring classes.

The deadline for accepting early sophomore standing is the spring semester's Add Date, Friday March 7, 2014, but most students accept or decline the offer in January so that they can plan accordingly for the spring semester.

One of the main benefits of accepting early sophomore standing is that students are not bound by the freshman spring credit limit of 57 units. Early sophomores can also declare their majors and get faculty advisors within their chosen department. Students accepting sophomore standing can also choose to remain undeclared and keep their freshman advisors if they chose to do so.

"I wanted to exceed the freshmen credit limit," said Devin A.

Neal '17 who recently accepted the offer of Early Sophomore Standing. Devin will be taking five 12-unit classes this semester, three units over the freshman credit limit. He was also able to declare his major, Course 6, earlier.

Early sophomores, however, are no longer on ABC/No Record grading for spring semester and are instead subject to an A to F grading scale.

Anna L. Jungbluth '17, who also accepted early sophomore standing after weighing the pros and cons, found that it was a practical decision. "I think that ABC/NR wouldn't give me that much of an advantage. If I'm concerned about my grade, I would just drop the class since drop date is so late in the semester."

Early sophomores also can take Sophomore Exploratory classes in the spring of their first year, whereas normally this option would only become available in the fall of their second year.

Jungbluth has not declared a major yet, and is looking forward to using her Sophomore Exploratory classes. "This is the time when I should decide what I want to major in by exploring different classes. Also, I get to keep my freshman advisor, which is nice," said Jungbluth.

Another early sophomore, Patrick H. Liscio '17, decided to accept the offer so that he would have more options when making his schedule. Liscio is considering Course 18, and is using his Sophomore Exploratory on 18.310A, Principles of Discrete Applied Mathematics. "I wanted the flexibility of taking more classes and being able to use my Sophomore Exploratory," said Liscio.

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Friday, February 7, 2014

The Tech 13

## William Ware, MIT alum, engineer, dies

Ware remembered for pioneering computer component engineering

By John Markoff

THE NEW YORK TIMES

Willis H. Ware, an electrical engineer who in the late 1940s helped build a machine that would become a blueprint for computer design in the 20th century, and who later played an important role in defining the importance of personal privacy in the information age, died Nov. 22 at his home in Santa Monica, Calif. He was 93. His death was confirmed by his family.

#### Ware led an early Pentagon computer security study. He later focused on computer privacy.

Ware's experience working on a classified World War II project to identify friendly aircraft led mathematician John von Neumann to recruit him to help develop a computer at the Institute for Advanced Study in Princeton, N.J., in 1946.

That machine was not the first digital computer, but it was based on a set of design ideas described by von Neumann that were broadly influential - first on the design of computers built by scientists around the world, and then on an early IBM computer known as the 701. Many of these concepts are still visible in the structure of modern computers and smartphones.

Ware, part of a small group of engineers working on that machine, was first to try to engineer many of the components that would become vital for modern computers. His experience in designing high-speed electronic circuits during World War II was essential to his design work on the computer at the Institute for Advanced Study, said George Dyson, a historian who has written extensively about the project.

Ware, who worked at the RAND Corp. for more than 55 years, was also one of the first people to gain a broad view of the effect computers were having on society, in their impact on automation and the threats they posed to privacy.

The computer will touch men everywhere and in every way, almost on a minute-to-minute basis, he wrote in 1966. Every man will communicate through a computer, whatever he does. It will change and reshape his life, modify his career and force him to accept a life of continuous change.

While at RAND, Ware led an early Pentagon study exploring computer security. Afterward he was asked by the secretary of commerce, Elliot L. Richardson, to lead a committee to address personal privacy in the computer era. Some of its policy recommendations were adopted in the Privacy Act of 1974.

The committee dealt with problems including the increasing reliance on universal identifiers like Social Security numbers.

Willis Ware laid the foundation for modern privacy law, Marc Rotenberg, executive director of the Electronic Privacy Information Center, said. His insight was that, in the computer age, organizations that collected private information would have to take responsibility, and individuals who gave up personal information would need to get rights. That insight has informed virtually every discussion of privacy law ever since.

Willis Howard Ware was born in Atlantic City, N.J., on Aug. 31, 1920, and developed an early passion for mechanical and electronic projects.

In an interview with the IEEE Computer Society in 2011, he traced his interest in engineering to a childhood observation. While riding his tricycle, he noticed that an older friend on a bicycle could pedal much faster than he could. He concluded that the lack of a chain on his trike was an obvious disadvantage.

He would go on to study electrical engineering at the University of Pennsylvania and the Massachusetts Institute of Technology. After graduating from MIT, he joined the Hazeltine Corp. to work on classified electronics projects. He obtained a Ph.D. in electrical engineering at Princeton while working on the Institute for Advanced Study machine.

He moved to Los Angeles to work for North American Aviation, and in 1952 joined RAND, where he was manager of the department where engineer Paul Baran did early work on packet switching, a technology that was the basis for the Internet.

Ware is survived by two daughters, Alison Ware and Deborah Pinson; a son, David; and two grandchildren.

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\*The Army Lab provides the intern's salary, which typically ranges from \$2280/month to \$2864/month depending on class year. Under certain circumstances the ISN can provide the intern with a supplement of up to \$1500 to defray costs of local accommodations and travel.

## Mixed feelings about death penalty for Tsarnaev

#### Citizens of Boston and victims cite the damage alleged Marathon bomber did to the city

**David Abel** 

THE NEW YORK TIMES

He lost his right leg and endured more than 20 operations. Shrapnel remains in his heart and elsewhere in his body, remnants of the Boston Marathon bombings that killed three and injured more than 260.

So when Marc Fucarile learned that the nation's top law enforcer intends to seek the death penalty for Dzhokhar Tsarnaev, the surviving suspect in the bombings, Fucarile thought the decision was "just the right thing to do."

#### Some who oppose the death penalty say they see this as the rare case where it should be used.

"For any terrorist who watches this around the world, they should know that we'll put them to death," said Fucarile, 35, of Reading, who underwent his most recent operation a few weeks ago and has at least two more scheduled. 'It's a powerful statement to let people know that if you do a horrible act like this, this is what will happen to you.'

Victims, first responders, spectators, runners, and others pro-

foundly affected by the attack last April responded with mixed feelings about the decision by US Attorney General Eric H. Holder Jr. to allow prosecutors to seek the death penalty against Tsarnaev. Some who generally oppose the death penalty said they see this as the rare occasion when it should be used. Others worried that the death penalty might be too easy an end for a young man who is also implicated in the death of an MIT police officer three days after the Marathon bombings.

Then there were those like Hilary Hayden-Moryl, 36, a veteran nurse from Ware, who was unsure how to feel. She was volunteering at the main medical tent near the finish line and witnessed the carnage up close: exposed bones piercing singed skin and rivulets of blood.

"At first, I was excited, thinking this was great news," said Hayden-Moryl, who is training to run this year's Boston Marathon. "But I'm not a violent person. I just don't know. I'm really not sure how I feel now."

A fellow volunteer at the medical tent, Nicole Fluet McGerald, who has suffered from post-traumatic stress disorder from her experience hearing the bombs detonate and treating the wounded, was less equivocal. She said two wrongs do not make a right.

"Emotionally, as much as I'd like to say, 'Let him die,' it won't

solve anything," said McGerald, 31, a physical therapist from Nashua who plans to return to the medical tent this year.

She thinks it would be a waste of money to seek the federal death penalty, which has been carried out only three times since the government reinstated it in 1988. It has not been used in Massachusetts since 1947

#### Law enforcement officials argued the death penalty is the proper punishment.

"The federal government could take all the money they saved and donate it to the victims of the bombing," she said, referring to the cost associated with death penalty cases, including expensive appeals.

Law enforcement officials who took part in the effort to capture Tsarnaev argued that the death penalty is the proper punishment.

"Given the vicious nature of the crime, the lives lost, and the hundreds injured on that fateful day, today's decision to seek the death penalty seems appropriate," said Boston Police Commissioner William Evans, who ran in the Marathon, then helped oversee the response to the bombing at the finish

line.

Police Chief Edward P. Deveau of Watertown said he was pleased by the decision, especially given the impact on his city, where Tsarnaev was captured in a boat in a homeowner's yard hours after a shootout.

"I think it's a well thought out decision, based on all the facts that have been outlined by the US attorney general," Deveau said. "I support it based on that. I have spoken to my officers here, and they feel the same way."

Former State Police trooper Sean Murphy, who retired after leaking photos of Tsarnaev's capture, called the attorney general's decision "the most appropriate course of action."

"If it doesn't make sense for this case, what does it make sense for?" said Murphy, 48, of Chelmsford, who will be running this year's Marathon to raise money in honor of Martin Richard, the 8-year-old from Dorchester who died while watching the race with his family.

In the moments after the April 15 attack, Bruce Mendelsohn, 45, a former Army lieutenant from Auburn, tied a rag around the lower left leg of a young Northeastern University student, making a tourniquet that helped save her life.

"I'm not a vindictive person, but the stuff this guy did is beyond excusable," he said. "Does this provide closure? Not really. But I think if we strip away the veneer of our forgiveness, I think people want to see him suffer, because of the suffering he inflicted."

Steve Fiola of Fitchburg, a first lieutenant in the National Guard, helped pull scaffolding away so rescuers could reach victims, put out a fire burning one man, and administered a tourniquet. While he lacks a strong conviction about the death penalty, he said he supports its use if it brings comfort to some victims.

"This is the most severe punishment that they could seek, and that is indicative of the level of commitment the justice system has in going after this," he said. "That will help everyone in their recovery."

Before Holder's decision was announced, Liz Norden of Stoneham, whose two sons each lost a leg in the blasts, said she had told prosecutors looking for input from victims that they should seek the death penalty.

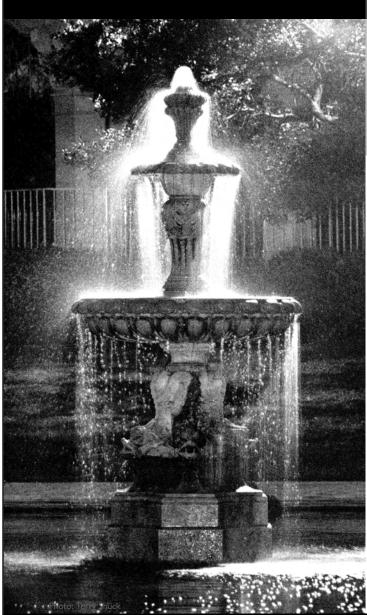
"My life, my kids' lives have been changed forever," said Norden, who was speaking for herself and not her sons, J.P. and Paul.

She said she would be disappointed if the government ultimately allows a plea bargain, enabling Tsarnaev to get life without parole.

Norden added, though, that neither of her sons wanted to take part in the discussion and have consistently chosen to be silent on the subject.

"They don't have time; they don't even think about it," she said. "They're focused on their recovery."

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FRIDAY, FEBRUARY 7, 2014

THE TECH 15

## New add/drop system receives positive feedback

#### Online application process will soon accommodate other useful online forms for students

Add/Drop Paperless, from Page 1

request to add, drop, or change a unit.

"The digital environment enabled us to extend the deadline for student submittal until 11:59 p.m. No more running to shove the form under the Registrar's door by 5 p.m.!" according to Mary R. Callahan, MIT's Registrar, who explained that the deadlines were the only policy to change as a result of the new form system.

"A nice feature of the new system is that there is logic behind the deadlines for when a student can submit a particular transaction," said Callahan. Sophomores, for example, were able to use the system to alter their exploratory option prior to the Registration Day deadline.

According to Eamon Kearns, Associate Director of Education Systems (part of IS&T), 30 freshmen were successfully able to drop courses through the online program during a pilot period held during the fall 2013 semester. "We were confident, based upon the pilot, that the app was ready to be deployed to the full community," stated Kearns.

Students generally showed positive responses to the new add/drop system. "Tracking down a professor to sign a form was difficult. You don't need that, it just made life more complicated," said Scott A. Skirlo '13, a graduate student, when asked about his experience with add/drop. Skirlo also commented that the new interface is easy to use

electronic forms; this is excellent for us."

Other students were disappointed that the system was only launched midway through their academic careers. Grace Tuyiringire '14 said she would like to see other forms online in the future, commenting that the new add/drop program "is well overdue at MTT"

Jazzmyne L. Washington '14 recalled a time when she was unable to find a professor for a drop signature, putting her in danger of failing the course. Others were disappointed that the system came so late.

and a significant improvement from what he experienced as an undergraduate.

When asked about her experiences adding and dropping courses, Jazzmyne L. Washington '14 recalled a time when she was unable to find a professor for a drop signature, putting her in danger of failing that course. "During the semester professors are busy and people are dropping at random times," Washington added. "The new online system is going to be much more convenient with all

Kearns told *The Tech* that more forms are likely to come. "Our goal is to roll out several additional forms in the next year, including the HASS concentration form, late add/drop petition, and the Dean for Graduate Education petition," he said.

"The add/drop form involves a complex workflow, which will pave the way for future forms and petitions to utilize the framework developed in this app," Callahan said.

The difficulty of creating the online ver-

sion may be the reason the deployment only came out recently.

"The paper add/drop provided the option of changing grading status, such as selecting listener or junior/senior P/D/F and adjusting units, and the digital version affords the same opportunities," Callahan explained. "When these and all of the nuances of add/drop are taken into consideration, it is clear why this form was complex to digitize."

"Once we determined the common framework required for supporting multiple forms and petitions, we focused on delivering the specific add/drop functionality, which took 9 months," said Kearns.

Callahan also stressed that administrators spent a great deal of time listening to faculty and student "add/drop pain points." "Add/drop impacts a large segment of the community and our focus is on improving the student experience," Callahan said. "We are so excited to be able to provide this service to our students and faculty. Our goal is to enhance the student-advisor relationship by providing a coherent user experience that is efficient and fun to use."



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import new\_skills

def learnMarketableJobSkills():
 return linux, OSX, javascript, applescript, perl, python

if you.interest == True:
 print "E-mail join@tech.mit.edu"

----:---F1 joinTechno.py

(Python)--L1--Top-----

## Manchester United and Chelsea both favorites

#### Dortmund and Real Madrid also expected to come out on top in their matchups in Last 16

By Ali Soylemezoglu SPORTS EDITOR

Tuesday's issue covered the first half of the Last 16 matchups. This time, we will focus on the remaining four matchups. These matchups will have their first games on either February 25 or 26 and the second leg matches on either March 18 or 19.

#### Olympiacos vs. Manchester United

This matchup seems fairly straightforward, as Manchester United would be expected to easily see off their Greek opposition, but at this stage in Champions League soccer, nothing is for certain. Olympiacos managed to finish their group second, ahead of Portuguese powerhouses Benfica, which itself may have come as a surprise to most. This goes to show that they should not be taken lightly. They currently sit comfortably in first place in the Greek Super League, having tied only twice in 21 matches. Their Champions League group stage performance went fairly well, collecting 10 points. But it is important to note that they lost twice to Paris Saint-Germain, who are of the same caliber as Manchester United. This is not a good sign for Olympiacos heading into the Last

Manchester United continue to have an inconsistent run in the Premier League. Furthermore, they were eliminated from the FA Cup. In the Champions League, they have collected 14 points in the group stage. While United's performances have slightly picked up form in the Premier League, they are still losing to the

better teams in the league, like Tottenham and Chelsea. Thus, one can never completely trust Manchester United in getting the result they need this season.

With that said, Olympiacos is not Tottenham or Chelsea, and United have had a more consistent run in the Champions League. Even if Olympiacos may cause a slight scare among United fans, Manchester United will come out on top in the end of the two legs.

#### Galatasaray vs. Chelsea

Galatasaray have advanced to the Last 16 two years in a row now. Last year, they had faced off against Schalke and had come out on top. This year their opponents are the star-studded Chelsea managed by Jose Mourinho. Chelsea are in third place and right within range of first place in the Premier League. They've lost only twice in the Champions League, both times to Basel, and collected 12 points. They've scored 56 goals and conceded 23 in the Champions League and Premier League combined. They've had their fair share of big wins in their latest matches, including a decisive 3-1 win over Manchester United and a 1-0 win over Manchester City.

Galatasaray managed to overcome Juventus with a late goal by Wesley Sneijder to see them through to the next round, while Juventus had to settle with third. Galatasaray have had an inconsistent form in the Turkish League and the Champions League. Ever since Roberto Mancini took over the managerial role, Galatasaray have converted to the 3-5-2 formation. Although they reaped

its benefits in the Champions League game against Juventus, they have also seen that same tactic fail them time after time. Mancini's Galatasaray got four points out of the two Juventus matchups, but lost 4-1 to Real Madrid. (The first loss to Real Madrid was during Fatih Terim's reign). In the Turkish League they've used a variety of formations, and although they've won most of their home games, they've tied most of their

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away games. That being said, an away tie would definitely be in favor for Galatasaray. Chelsea should be especially cautious about playing in Istanbul because Galatasaray utterly dominate when playing at home. Galatasaray do have their own arsenal of weapons with players like Didier Drogba and Wesley Sneijder. The Dutchman, especially, has been in phenomenal form recently. If Galatasaray continue playing the way did in their recent 6-0 win in the Turkish league over Bursaspor, then Galatasaray do have a good shot at the next round. This draw seems to be leaning towards Chelsea, but one can never be sure what exactly to expect from Galatasaray, who have their own star power as well. Chelsea is more likely to qualify for the quarterfinals, but don't count out Galatasaray just yet.

#### Zenit St. Petersburg vs. Borussia Dortmund

This is one of the more interesting draws in the Champions League Last 16. Dortmund finished first in a group where the first three teams all had 12 points (with Arsenal finishing second and Napoli finishing third and failing to advance to the Last 16), and Zenit finished in their own group with only six points. Some may argue that this was unfair, but luck is also part of the reality of soccer.

Dortmund are currently third in the Bundesliga with 36 points and are four points behind second place Bayer Leverkusen. They had a tough group but managed to come out on top. Zenit, on the other hand, despite doing well in their own league at first place with 40 points, have struggled throughout the Champions League. They have managed to get only one win during the entire group stage and tied three times. Although Zenit have important players like Hulk and Danny, Dortmund are the better team overall, as reflected by their results in the Champions League. With their fans behind them, Dortmund will surely qualify to the next round.

#### Schalke 04 vs. Real Madrid

Real Madrid have recently gained large amounts of mo-

mentum in the Spanish La Liga. They have caught up to Barcelona and are within reach of Atletico Madrid They also finished the Champions League group stage with 16 points. Their lethal weapons, Gareth Bale and Cristiano Ronaldo, manage to delight soccer fans all over the world with fantastic goals every week as long as they manage to stay healthy. In fact, Gareth Bale had recently suffered an injury, but it will be a thing of the past by the time Madrid face Schalke. Real Madrid are still the same old Real Madrid with the same star power and raw talent.

Schalke 04, on the other hand, are currently in fourth position in the Bundesliga and finished second in their Champions League group with 10 points. They suffered two losses in the group stage, both at the hands of Chelsea, an opponent that is on par with Real Madrid. Schalke has an inconsistent league form, and the fact that they could not compete with star-studded teams like Bayern Munich (lost 4-0 in the first half of the season) in the Bundesliga and Chelsea in the Champions League only adds to their list of disadvantages against Real Madrid. Even if Schalke could put up a challenge for Real Madrid, Real Madrid will be the ones to advance to the next round.

#### **UPCOMING HOME EVENTS**

Saturday, February 08

Men's Volleyball vs. Elmira College Men's Volleyball vs. Nazareth College

1 p.m., Rockwell Cage 1 p.m., Rockwell Cage



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